AMENDMENTS TO CLAIMS

The following list of claims will replace all prior versions, and listings, or the claims in the application:

1   1.   (Currently amended) A method for performing a frequent itemset operation, the

2   method comprising the steps of:

3   ~~within a database server that supports a particular database language, parsing a~~

4   ~~database statement to detect within the database statement a construct that~~

5   ~~extends the particular database language;~~

6   ~~in response to detection of said construct,~~ within a [[the]] database server, receiving a

7   database statement that specifies frequency criteria and additional criteria; and

8   performing [[a]] said frequent itemset operation as part of execution of the database

9   statement to produce results, wherein the results include frequent itemsets that

10   satisfy both said frequency criteria and said additional criteria, and wherein

11   the results do not include frequent itemsets that satisfy said frequency criteria

12   but do not satisfy said additional criteria.

1   2.   (Currently amended) The method of Claim 1, wherein the database statement is

2   expressed in a particular database language, and wherein the particular database

3   language is SQL.

1   3.   (Currently amended) The method of Claim 1, wherein the frequency criteria and the

2   additional criteria are identified by a construct, and wherein the construct is a table

3   function.

1   4.   (Original) The method of Claim 1 wherein:

2   the database statement includes a first indication of a first input format;

3   the frequent itemset operation operates on input that conforms to said first input

4   format; and

5   the method further comprises the steps of:

6   parsing a second database statement to detect within the second database

7   statement the construct that extends a database language, wherein the

8		second database statement includes a second indication of a second
9		input format that is different from said first input format; and
10		in response to detection of said construct in said second database statement,
11		the database server performing a second frequent itemset operation as
12		part of execution of the second database statement, wherein the second
13		frequent itemset operation operates on input that conforms to said
14		second format.

1   5.   (Original) The method of Claim 4 wherein the first indication is identification of a

2   first table function and the second indication is identification of a second table

3   function.

1   6.   (Original) The method of Claim 1 wherein the frequent itemset operation uses, as

2   input, a row source that is generated during execution of other operations specified in

3   said database statement.

1   7.   (Original) The method of Claim 1 wherein the frequent itemset operation produces,

2   as output, a row source that is used as input for other operations specified in said

3   database statement.

1   8.   (Cancelled).

1   9.   (Currently amended) The method of Claim 1 wherein:

2   the ~~database statement~~ additional criteria specify ~~specifies~~ a minimum length; and

3   the step of performing the frequent itemset operation includes performing a frequent

4   itemset operation whose results exclude all item sets that include fewer items

5   than the minimum length specified [[in]] by the ~~database statement~~ additional

6   criteria.

1   10.   (Currently amended) The method of Claim 1 wherein:

2   the ~~database statement~~ additional criteria specify ~~specifies~~ a maximum length; and

3   the step of performing the frequent itemset operation includes performing a frequent

4   itemset operation whose results exclude all item sets that include more items

5   than the maximum length specified [[in]] by the ~~database statement~~ additional

6   criteria.

1 11. (Currently amended) The method of Claim 1 wherein:

2   the ~~database statement~~ additional criteria specify ~~specifies~~ a set of one or more

3   included items; and

4   the step of performing the frequent itemset operation includes performing a frequent

5   itemset operation whose results exclude all itemsets that do not include all

6   items in said set of one or more included items.

1 12. (Orignal) The method of Claim 1 wherein the step of performing the frequent

2   itemset operation includes performing a frequent itemset operation whose results

3   identify

4   frequent itemsets, and

5   for each of the frequent itemsets, a count of how many item groups included the

6   frequent itemset.

1 13. (Original) The method of Claim 1 wherein the step of performing the frequent

2   itemset operation includes performing a frequent itemset operation whose results

3   identify

4   frequent itemsets, and

5   for each of the frequent itemsets, a count of how items are in the frequent itemset.

1 14. (Currently amended) A computer-readable storage medium carrying one or more

2   sequences of instructions which, when executed by one or more processors, causes

3   the one or more processors to perform the method recited in Claim 1.

1 15. (Currently amended) A computer-readable storage medium carrying one or more

2   sequences of instructions which, when executed by one or more processors, causes

3   the one or more processors to perform the method recited in Claim 2.

1 16. (Currently amended) A computer-readable storage medium carrying one or more

2   sequences of instructions which, when executed by one or more processors, causes

3   the one or more processors to perform the method recited in Claim 3.

1 17. (Currently amended) A computer-readable storage medium carrying one or more
2 sequences of instructions which, when executed by one or more processors, causes
3 the one or more processors to perform the method recited in Claim 4.

1 18. (Currently amended) A computer-readable storage medium carrying one or more
2 sequences of instructions which, when executed by one or more processors, causes
3 the one or more processors to perform the method recited in Claim 5.

1 19. (Currently amended) A computer-readable storage medium carrying one or more
2 sequences of instructions which, when executed by one or more processors, causes
3 the one or more processors to perform the method recited in Claim 6.

1 20. (Currently amended) A computer-readable storage medium carrying one or more
2 sequences of instructions which, when executed by one or more processors, causes
3 the one or more processors to perform the method recited in Claim 7.

1 21. (Cancelled).

1 22. (Currently amended) A computer-readable storage medium carrying one or more
2 sequences of instructions which, when executed by one or more processors, causes the
3 one or more processors to perform the method recited in Claim 9.

1 23. (Currently amended) A computer-readable storage medium carrying one or more
2 sequences of instructions which, when executed by one or more processors, causes
3 the one or more processors to perform the method recited in Claim 10.

1 24. (Currently amended) A computer-readable storage medium carrying one or more
2 sequences of instructions which, when executed by one or more processors, causes
3 the one or more processors to perform the method recited in Claim 11.

1 25. (Currently amended) A computer-readable storage medium carrying one or more
2 sequences of instructions which, when executed by one or more processors, causes
3 the one or more processors to perform the method recited in Claim 12.

1 26. (Currently amended)   A computer-readable <u>storage</u> medium carrying one or more

2   sequences of instructions which, when executed by one or more processors, causes

3   the one or more processors to perform the method recited in Claim 13.